Elxflash Offline/Online Utilities Release Notes

Versions: Linux ElxflashOffline Kit, Version 6.3.14.1
Linux ElxflashOffline for NIC-only Kit, Version 6.3.14.1
Linux ElxflashOnline Kit, Version 6.3.14.1
Linux Elxflash Offline Standalone Kit, Version 6.3.14.1
Windows ElxflashOffline Kit, Version 6.3.14.1
Windows ElxflashOnline Kit, Version 6.3.14.1
Windows PE 4.0 x64, Version 6.3.14.1
Windows Elxflash Offline Standalone Kit, Version 6.3.14.1

Date: June 2013

Purpose and Contact Information

These release notes describe the resolved known issues, current known issues, and technical tips associated with the Elxflash offline/online utilities for Linux, Windows, and FreeBSD (abbreviated to "Elxflash utilities" in this document). For information about these utilities and their supported platforms, see *Emulex Offline and Online Adapter Management Utilities User Manual*.

The *Emulex Offline and Online Adapter Management Utilities User Manual* includes support for the following driver versions, in addition to the versions listed in the manual:

- Linux ElxflashOffline Kit, Version 6.3.14.1
- Linux ElxflashOffline for NIC-only Kit, Version 6.3.14.1
- Linux ElxflashOnline Kit, Version 6.3.14.1
- Linux Elxflash Offline Standalone Kit, Version 6.3.14.1
- Windows ElxflashOffline Kit, Version 6.3.14.1
- Windows ElxflashOnline Kit, Version 6.3.14.1
- Windows PE 4.0 x64, Version 6.3.14.1
- Windows Elxflash Offline Standalone Kit, Version 6.3.14.1

For the latest product documentation, go to www.Emulex.com. If you have questions or require additional information, contact an authorized Emulex technical support representative at tech.support@emulex.com, 800-854-7112 (US/Canada toll free), +1 714-885-3402 (US/International), or +44 1189-772929 (Europe, Middle East, and Africa).

Resolved Issues

1. **Linux ElxflashStandalone no longer displays a "chmod" error when the kit is run from a read-only file system.**
2. **Elxflash and LpCfg execution scripts now write temp files to the temp directory.**
3. **In Windows Elxflash Standalone, the Elxflash.bat and Winlpcfg.bat scripts can locate 64bit OCM libraries when executed in a 32bit shell.**
4. **In Windows Elxflash Standalone, Elxflash and winlpcfg scripts no longer stop the OCM Remote Management service.**

5. **Elxflash Offline NIC Only now reports that a reboot is required to activate firmware.**
6. **A memory leak was repaired in Elxflash Offline during adapter discovery.**
7. **A new LpCfg command called listattr was created.**

   Listattr consolidates the listhba and listfw functions and improves Elxflash performance. listfw is no longer available.
8. **In Linux Elxflash Offline NIC-Only, the error message is no longer displayed when running on Oracle Enterprise Linux 5.9.**

Known Issues

1. **An incorrect Vital Product Data (VPD) serial number causes the Elxflash utilities to mis-identify OneConnect OCe10102 and OCe11102 Fibre Channel over Ethernet (FCoE) universal converged network adapters (UCNAs). (Linux Offline and Online and Windows Offline)**

   If the FCoE UCNA VPD serial number does not match the serial number reported by the Management Interface Library (MILI) daemon, Elxflash offline/online utilities may misidentify the OneConnect OCe10102 or OCe11102 FCoE UCNA as an OCe10102 or OCe11102 Internet Small Computer Serial Interface (iSCSI) UCNA.

   Workaround

   Confirm that the OCe10102 or OCe11102 FCoE UCNA's VPD serial number matches the serial number reported by the MILI daemon. If it does not, contact Emulex Technical Support.
2. **When using the fwmatrix.txt file, the Elxflash utilities use the last matching entry of the UCNA or HBA being evaluated. (Linux Offline and Online and Windows Offline)**

   If there are multiple entries, the Elxflash utilities use the last matching entry only. This is expected behavior. Verify that the fwmatrix.txt file does not have duplicate entries.
3. **When using an inbox NIC driver, some fields do not report data on OCe11100 UCNAs. (Linux Elxflash Offline for NIC-only)**

   On RHEL 5.5 and SLES 10.4, OCe11100 UCNAs are not supported by the inbox driver. This utility does not report any data for certain fields.

   Workaround

   Use the current driver update package (DUP) or driver update disk (DUD)
   - For RHEL 5.5, use the current DUP.
   - For SLES 10 SP4, use the current DUD with the NIC driver.
4. **For Linux ElxflashOffline, ElxflashOnline, Elxflash Standalone, and FreeBSD ElxflashOffline, the loopback ("lo") interface IP address must be 127.0.0.1 for the MILI daemon to start. (Linux Offline, Online, Standalone, and FreeBSD Offline)**

   Workaround

   Configure the "lo" interface IP address to 127.0.0.1.

5. **For LinLpCfg and WinLpCfg, the displayed version may not match with some UCNA firmware and applications. (Linux and Windows Offline-Only)**

   On OCe10102 FCoE UCNAs, firmware on FCoE and NIC functions are reported in a 2.70x.xxx.xx format, while OCe10102 iSCSI firmware is identified in a 2.10x.xxx.xxx format.

   On OCe11102 FCoE UCNAs, firmware on FCoE and NIC functions are reported in a 3.70x.xxx.xx format, while OCe11102 iSCSI firmware is identified in a 3.10x.xxx.xxx format.

   The number "7" indicates that an FCoE initial program load (IPL) is installed on the UCNA. The displayed version is reported by the MILI daemon and is expected behavior.

   Workaround

   None.

6. **For LinLpCfg and WinLpCfg, the DmaTest command is only supported on OneConnect UCNAs. (Linux and Windows Offline-Only)**

   Workaround

   None.

7. **The Linux Elxflash Offline, Elxflash Online, and Elxflash Standalone kits require out-of-box NIC and iSCSI drivers.**

   If the out-of-box NIC and iSCSI drivers are not installed, the following effects occur:

   - NIC and iSCSI functions may not be discovered.
   - LpCfg and Elxflash report some fields for FCoE, iSCSI, and NIC functions as "0.0.0.0".
   - Elxflash reports that the FCoE firmware version is unavailable.
   - Firmware downloads to FCoE, iSCSI, and NIC functions may not be available.

   Workaround:

   Ensure that you have downloaded the out-of-box NIC and iSCSI drivers from the Emulex website.

8. **The Windows Elxflash Offline, Elxflash Online, and Elxflash Standalone kits require out-of-box FC/FCoE, NIC, and iSCSI drivers.**

   If the out-of-box FC/FCoE, NIC, and iSCSI drivers are not installed, the following effects occur:

   - NIC and iSCSI functions will not be discovered.
   - LpCfg and Elxflash report some fields for FCoE functions as "0.0.0.0".
   - Firmware downloads to FCoE functions are not available.

   Workaround

   For Windows Elxflash Online and Elxflash Standalone kits, ensure that you have downloaded the out-of-box FC, FCoE, NIC and iSCSI drivers from the Emulex website.

   For Elxflash Offline (Windows PE), run the kit's installer. The installer installs all applicable drivers.

9. **The MILI daemon is required by the Elxflash Offline, Elxflash Online, and Elxflash Standalone kits.**

   If the MILI daemon is not running, the following effects occur:

   - NIC and iSCSI functions will not be discovered.
   - LpCfg and Elxflash report some fields for FCoE functions as "0.0.0.0".

- Firmware downloads to FCoE functions are not available.

Workaround

For Windows Elxflash Offline and Elxflash Online

a) Verify that the MILI Service is running.

b) Start the service if it is not running:

```
net start "Emulex MILI Management"
```

For Linux Elxflash Offline and Elxflash Online

a) Verify that the MILI daemon is running.

b) Start the daemon if it is not running:

```
/etc/init.d/elxmilid start
```

For FreeBSD Elxflash Offline

a) Verify that the MILI daemon is running.

b) Start the daemon if it is not running:

```
/etc/rc.d/elxmilid start
```

For Windows and Linux Elxflash Standalone

The MILI service or daemon is started during runtime. If the MILI service or daemon is not started, contact Emulex support.

10. **The LinLpCfg rpm file does not install with RHEL 5.6 (or later versions) because of a missing library, causing the Linux ElxflashOffline kit installation to fail. (Linux-Only Offline-Only)**

    The LinLpCfg rpm file does not install because of a missing libnl (Net Links) library. Unlike other supported operating systems, RHEL 5.6 (or later versions) does not install the libnl library during a default installation.

    Workaround

    Install the libnl library from the RHEL 5.6 (or later versions) distribution media.

    Note: This known issue does not apply to Citrix XenServer 6.x.

11. **If you are using Citrix XenServer 6.x, the ElxflashOffline kit cannot be installed.**

    When installing the Elxflash on Citrix XenServer 6.x, the ElxflashOffline kit cannot be installed because it conflicts with the inbox OCM core kit.

    Workaround

    To install the ElxflashOffline kit, the OCM Core Kit must be removed. Once the ElxflashOffline kit is installed, you may install the OCM Core Kit. Alternatively, you can install the Linux ElxflashStandalone kit.

12. **For Linux ElxflashOffline, after a Network Communications Services Interface (NCSI) download, the system must be cold rebooted. (Linux-Only Offline-Only)**

    This is expected behavior. The system must be cold rebooted after an NCSI download.

13. **For NIC-only Linux ElxflashOffline, only OneConnect UCNAs are supported and only NIC functions are displayed. (Linux-Only Offline-Only)**

    This NIC-only utility does not support LightPulse HBAs and does not display iSCSI or FCoE functions. This is expected behavior.

Workaround

None.

14. **For NIC-only Linux ElxflashOffline running on a SLES 10 SP4 operating system, OCe10100-iSCSI and OCe11100-iSCSI adapters are identified as OCe10100-NIC and OCe11100-NIC. (Linux Elxflash Offline for NIC-only)**

    Workaround

    Use an out-of-box iSCSI driver to correctly identify OCe10100-iSCSI and OCe11100-iSCSI adapters.

15. **On Windows PE, the MILI service does not start if the WinPEinit application is disabled at boot up. (Windows ElxflashOffline and Windows ElxflashStandalone)**

    Workaround

    Do not disable the WinPEinit application; it is required for the MILI service to start.

16. **The silent mode "/q2" does not work correctly on Windows PE 3.1. (Windows-Only Offline)**

    The silent option "/q2" does not work correctly on Windows PE 3.1. As a result, the NIC, iSCSI, and FC/FCoE drivers may not load during installation.

    Note: The non-interactive mode "/q1" still works correctly.

    Workaround

    None.

17. **FC, NIC, and iSCSI driver kits are no longer included in the Linux ElxflashOffline kit.**

    Workaround

    None.

Technical Tip

1. **The following kit names have changed:**
   - The Offline Adapter Management Utility kit name for Linux has changed from "elxflashOffline-<platforms>-<version>-<rel>.tgz" to "elxflashOffline-linux-<version>-<rel>.tgz".
   - The Online Adapter Management Utility kit name for Linux has changed from "elxflashOnline-tgz-<platforms>-<version>-<rel>.tgz" to "elxflashOnline-tgz-linux-<version>-<rel>.tgz".
   - The Offline Adapter Management Utility Linux Inbox NIC kit name has changed from "elxflashOffline_inbox_NIC-<platforms>-<version>-<rel>.tgz" to "elxflashOffline_inbox_NIC-linux-<version>-<rel>.tgz".

2. **The Offline/Online Adapter Management Utility kit for the Citrix operating systems is part of the Linux Offline/Online Adapter Management Utility kit for Linux.**

3. **If Elxflash is reporting erroneous output, run the application with the /xv switch.**

   The /xv switch creates a log file called dbg.log. Forward this log to Emulex Technical Support.

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